

Table 1 - Test Results

Dilution of Virus	Virus - Disinfectant <sup>1</sup>	Virus - Control <sup>1</sup>	Cytotoxic-Control
10 <sup>-1</sup>	T T T T	+ + + +	T T T T
10 <sup>-2</sup>	T T T T	+ + + +	T T T T
10 <sup>-3</sup>	T 0 0 0	+ + + +	T 0 0 0
10 <sup>-4</sup>	0 0 0 0	+ + + +	0 0 0 0
10 <sup>-5</sup>	0 0 0 0	+ + + +	0 0 0 0
10 <sup>-6</sup>	0 0 0 0	+ + + 0	0 0 0 0
10 <sup>-7</sup>	0 0 0 0	+ 0 0 0	0 0 0 0
10 <sup>-8</sup>	0 0 0 0	0 0 0 0	0 0 0 0

1 Recovery of virus from surfaces demonstrated by cytopathogenic effect, fluorescent antibody, plaque count, animal' response, or other recognized acceptable technique.

Note: T = toxic; + = virus recovered; 0 = no virus recovered.

Table II-Calculation of the Tissue Culture Infective Dose 50 (TCID<sub>50</sub>)

							A c c u m u l a t e d
Values							
Virus dilution inoculated	No. infected/ No. inoculated	No. infected	No. not infected	No. infected	No. not infected	No. infected/ No. inoculated	per cent infected
10 <sup>-1</sup>	4/4	4	0	24	0	24/24	100
10 <sup>-2</sup>	4/4	4	0	20	0	20/20	100
10 <sup>-3</sup>	4/4	4	0	16	0	16/16	100
10 <sup>-4</sup>	4/4	4	0	12	0	12/12	100
10 <sup>-5</sup>	4/4	4	0	8	0	8/8	100
10 <sup>-6</sup>	3/4	3	1	4	1	4/5	80
10 <sup>-7</sup>	1/4	1	3	1	4	1/5	20
10 <sup>-8</sup>	0/4	0	4	0	8	0/8	0

$$\text{TCID}_{50} = 10^{6.5}$$

Table III-Calculations of the Tissue Culture Lethal Dose 50 (TCLD<sub>50</sub>)

Virus dilution inoculated	No. toxic/ No. inoculated	No. toxic	No. not toxic	Accumulated Values			
				No. toxic	No. not toxic	No. toxic/ No. inoculated	percent toxic
10 <sup>-1</sup>	4/4	4	0	9	0	9/9	100
10 <sup>-2</sup>	4/4	4	0	5	0	5/5	100
10 <sup>-3</sup>	1/4	1	3	1	3	1/4	25
10 <sup>-4</sup>	0/4	0	4	0	7	0/7	0
10 <sup>-5</sup>	0/4	0	4	0	11	0/11	0
10 <sup>-6</sup>	0/4	0	4	0	15	0/15	0
10 <sup>-7</sup>	0/4	0	4	0	19	0/19	0
10 <sup>-8</sup>	0/4	0	4	0	23	0/23	0

$$\text{TCID}_{50} = 10^{2.7}$$

Therefore: Virus inactivation =  $\text{TCID}_{50} - \text{TCLD}_{50} = 10^{3.8} \log 10$   
 Claims for virucidal activity for a product must be restricted to those  
 viruses which have actually been tested.